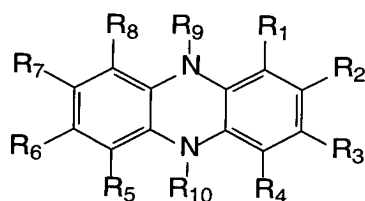


WHAT IS CLAIMED IS:

1. A multilayer electroluminescent device comprising a cathode, an anode, a light emitting layer (LEL) and a layer disposed between the cathode and anode containing a dihydrophenazine compound.

2. A multilayer electroluminescent device comprising a cathode, an anode, a light emitting layer (LEL) and a layer disposed between the cathode and anode containing a dihydrophenazine compound represented by:



wherein:

R₁ is hydrogen, halogen, alkyl of from 1 to 24 carbon atoms, which are branched, unbranched, or cyclic, aryl or substituted aryl of from 5 to 24 carbon atoms, heterocyclic or substituted heterocyclic, alkenyl or substituted alkenyl, alkoxy, aryloxy, amino, or connected to R₂ to form 5 or 6 member rings which may be substituted or unsubstituted;

R₄ is hydrogen, halogen, alkyl of from 1 to 24 carbon atoms, which are branched, unbranched, or cyclic, aryl or substituted aryl of from 5 to 24 carbon atoms, heterocyclic or substituted heterocyclic, alkenyl or substituted alkenyl, alkoxy, aryloxy, amino, or connected to R₃ to form 5 or 6 member rings which may be substituted or unsubstituted;

R₅ is hydrogen, halogen, alkyl of from 1 to 24 carbon atoms, which are branched, unbranched, or cyclic, aryl or substituted aryl of from 5 to 24 carbon atoms, heterocyclic or substituted heterocyclic, alkenyl, substituted alkenyl, alkoxy, aryloxy, amino, or connected to R₆ to form 5 or 6 member rings which may be substituted or unsubstituted;

R₈ is hydrogen, halogen, alkyl of from 1 to 24 carbon atoms, which are branched, unbranched, or cyclic, aryl or substituted aryl of from 5 to 24 carbon atoms, heterocyclic or substituted heterocyclic, alkenyl or substituted alkenyl,

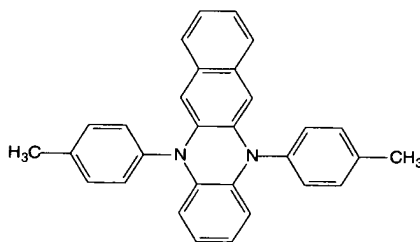
alkoxy, aryloxy, amino, or connected to R₇ to form 5 or 6 member rings which may be substituted or unsubstituted;

R₂ and R₃ are individually hydrogen, alkyl of from 1 to 24 carbon atoms, which are branched, unbranched, or cyclic, halogen, aryl or substituted aryl of from 5 to 24 carbon atoms, heterocyclic or substituted heterocyclic, alkenyl or substituted alkenyl, alkoxy, aryloxy, amino, thioaryl, thioalkyl, or connected to form 5 or 6 member rings which may be substituted or unsubstituted;

R₆ and R₇ are individually hydrogen, alkyl of from 1 to 24 carbon atoms, which are branched, unbranched, or cyclic, halogen, aryl or substituted aryl of from 5 to 24 carbon atoms, heterocyclic or substituted heterocyclic, alkenyl or substituted alkenyl, alkoxy, aryloxy, amino, thioaryl, thioalkyl, or connected to form 5 or 6 member rings which may be substituted or unsubstituted; and

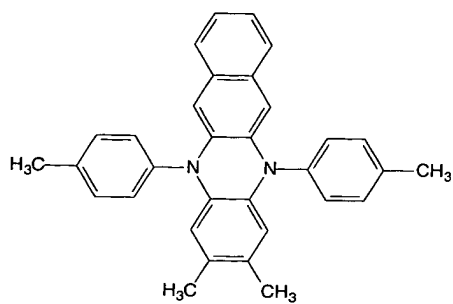
R₉ and R₁₀ are individually hydrogen, alkyl of from 1 to 24 carbon atoms, which are branched, unbranched, or cyclic, aryl or substituted aryl of from 5 to 24 carbon atoms, heterocyclic or substituted heterocyclic, alkenyl or substituted alkenyl.

3. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is of the formula:

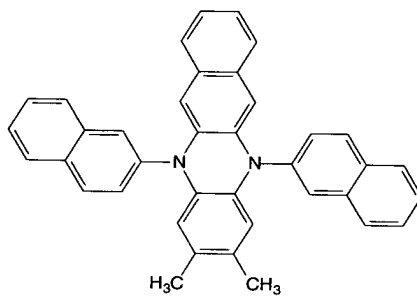


4. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is of the formula:

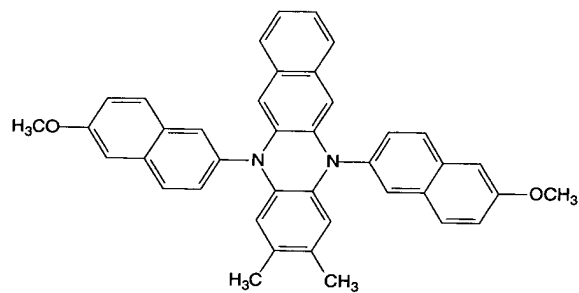
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5. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is of the formula:

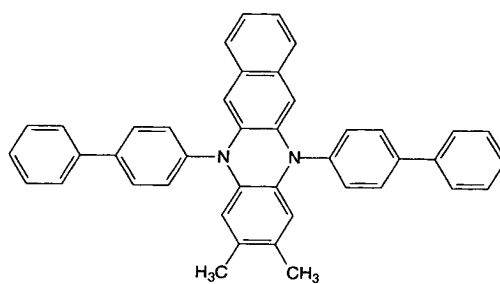


6. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is of the formula:

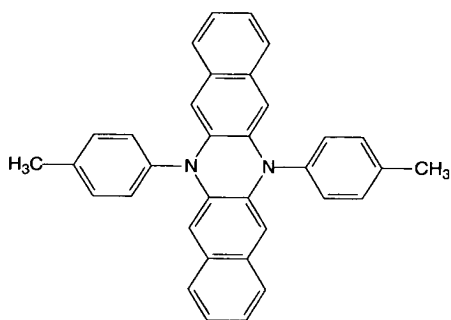


7. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is of the formula:

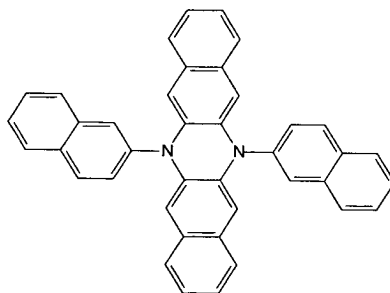
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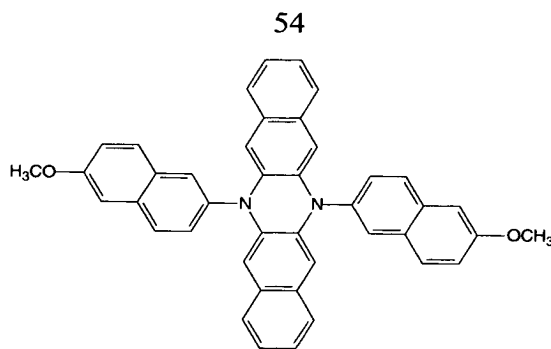
8. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is of the formula:



9. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is of the formula:



10. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is of the formula:



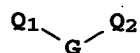
11. The multilayer electroluminescent device of claim 1 wherein the dihydrophenazine compound is contained in a layer that is adjacent to the anode.

12. The multilayer electroluminescent device of claim 1 wherein the dihydrophenazine compound is contained in a layer that is not adjacent to the anode.

13. The multilayer electroluminescent device of claim 1 wherein the dihydrophenazine compound is contained in a layer that is not adjacent to the light emitting layer.

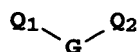
14. The multilayer electroluminescent device of claim 1 wherein the dihydrophenazine derivative functions to improve hole-transporting and there is present in a layer between the anode and the light emitting layer a second compound that functions to improve hole transporting.

15. The multilayer electroluminescent device of claim 14 wherein the second compound is represented by:



wherein Q_1 and Q_2 are independently selected aromatic tertiary amine moieties and G is a linking group or a bond.

16. The multilayer electroluminescent device of claim 14 wherein the second compound is contained in the layer adjacent to the light emitting layer.
17. The multilayer electroluminescent device of claim 15 wherein the second compound is N,N'-di(1-naphthyl)-N,N'-diphenyl-4,4'-diaminobiphenyl or N,N'-di-1-naphthalenyl-N,N'-di-2-naphthalenyl-[1,1'-Biphenyl]-4,4'-diamine.
18. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is contained in a layer that is adjacent to the anode.
19. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is contained in a layer that is not adjacent to the anode.
20. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine compound is contained in a layer that is not adjacent to the light emitting layer.
21. The multilayer electroluminescent device of claim 2 wherein the dihydrophenazine derivative functions to improve hole-transporting and there is present in a layer between the anode and light emitting layer a second compound that functions to improve hole transporting.
22. The multilayer electroluminescent device of claim 21 wherein the second compound is represented by:



wherein Q_1 and Q_2 are independently selected aromatic tertiary amine moieties and G is a linking group or a bond.

23. The multilayer electroluminescent device of claim 21 wherein the second compound is contained in the layer adjacent to the light emitting layer.

24. The multilayer electroluminescent device of claim 21 wherein the second compound is N,N'-di(1-naphthyl)-N,N'-diphenyl-4,4'-diaminobiphenyl or N,N'-di-1-naphthalenyl-N,N'-di-2-naphthalenyl-[1,1'-Biphenyl]-4,4'-diamine.